

Abstract

A door opening and closing system for a electric oven is provided. The system includes: at least one latch provided at one side surface of a door; a door interlocking structure having a rotary lever, a switch and an elastic spring to sense opening and closing of the door, the rotary lever being pushed by the latch to rotate about one side, the switch sequentially contacting with the rotary lever, and the elastic spring allowing the rotary lever to be supported in one direction; and a door locking structure having a motor, a rotary unit and a latch guide unit, the motor rotating after it is sensed that the door is closed by the door interlocking structure, the rotary unit engaged with and rotated about a rotary shaft of the motor, and the latch guide unit being associated with the rotary unit to change a rotation motion of the rotary unit into a straight-line motion such that the door is latched to the latch to prevent an erroneous opening of the door.